S2.66/9:10/17

UNIVERSITY OF FLORIDA LIBRARIES MAY 1961

Morbidity and Mortality Weekly Report

PUBLIC HEALTH SERVICE
U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Prepared by the COMMUNICABLE DISEASE CENTER MElrose 4-5131

For release May 5, 1961 | Atlanta 22, Georgia | Vol. 10, No. 17

Provisional Information on Selected Notifiable Diseases in the United States and on Deaths in Selected Cities for Week Ended April 29, 1961

Hepatitis – Sustained high incidence continues. The total of 1,831 reported cases is essentially equal to the total of 1,821 of last week. For the past fourteen consecutive weeks the incidence of this disease has remained at a high plateau of 1,700 cases or over. There appears no indication of the usual seasonal decline expected in the late spring. The high incidence is nationwide in extent except for the New England States. Marked increases in incidence were reported this week from Missouri, Michigan and Kansas. Decreases were observed in Alabama, Georgia, Kentucky and Utah.

This week marks the initiation of nationwide reporting of cases of hepatitis by age – under 20 years and 20 years or over. A total of 33 States reported this age classification in this week's telegram of incidence of notifiable diseases. These data are presented in the accompanying table. In New Jersey, sharp concentration of cases, (78 percent), among adults is noteworthy. This trend has been consistent throughout the year (MMWR Vol. 10, No. 11, for week ended March 18 (1961). In New York City, the concentration among adults (66 percent) is also reported. Elsewhere, other than Oregon, cases have been predominantly among persons under 20 years of age.

Table I. Cases of Specified Notifiable Diseases: United States

(Cumulative totals include revised and delayed reports through previous week)

Disease (Seventh Revision of International Lists, 1955)	17th Week			Cumulative, First 17 weeks			Cumulative, Since seasonal low week			Approximate seasonal low point
* Weekly incidence low or sporadic --- Data not available - Quantity zero	Ended April 29, 1961	Ended April 30, 1960	Median 1956-60	1961	1960	Median 1956-60	1960-61	1959-60	Median 1955-56 to 1959-60	
Anthrax-----062	1	-	*	2	6	*	*	*	*	*
Botulism-----049.1	-	-	*	4	3	*	*	*	*	*
Brucellosis (undulant fever)-----044	10	22	20	177	270	265	*	*	*	*
Diphtheria-----055	5	19	19	234	270	304	814	807	1,010	July 1
Encephalitis, infectious-----082	32	41	35	443	473	427	443	473	427	Jan. 1
Hepatitis, infectious, and serum-----092,N998.5 pt.	1,831	875	398	30,466	13,252	8,294	45,673	21,071	13,807	Sept. 1
Malaria-----110-117	2	1	*	13	16	*	*	*	*	*
Measles-----085	18,177	19,917	19,917	219,094	224,328	266,599	255,304	259,772	303,268	Sept. 1
Meningitis, aseptic-----340 pt.	21	31	---	410	483	---	410	483	---	Jan. 1
Meningococcal infections-----057	36	43	51	834	896	965	1,490	1,595	1,774	Sept. 1
Poliomyelitis-----080	5	8	29	133	260	379	30	44	86	Apr. 1
Paralytic-----080.0,080.1	3	6	21	82	188	268	22	34	60	Apr. 1
Nonparalytic-----080.2	2	2	5	28	44	63	3	8	15	Apr. 1
Unspecified-----080.3	-	-	3	23	28	48	5	2	11	Apr. 1
Psittacosis-----096.2	1	1	*	19	35	*	*	*	*	*
Rabies in man-----094	-	-	*	2	-	*	*	*	*	*
Streptococcal sore throat, including scarlet fever-----050,051	7,489	7,551	---	158,029	145,601	---	255,681	---	---	Aug. 1
Typhoid fever-----040	10	9	16	165	170	235	50	43	55	Apr. 1
Typhus fever, endemic-----101	-	2	*	9	11	*	*	*	*	*
Rabies in animals-----	95	78	95	1,219	1,418	1,719	1,795	2,402	2,501	Oct. 1

Anthrax - Pennsylvania 1.

HEPATITIS CASES BY AGE*
WEEK ENDED APRIL 29, 1961

State	Under 20 Years	20 Years and Over	Age Unspecified	Total
Maine	4	3	–	7
N. H.	1	1	3	5
Vermont	0	0	–	0
Mass.	1	3	–	4
R. I.	1	1	–	2
Conn.	7	4	2	13
N. Y. C.	10	19	–	29
Upst. N. Y.	28	29	1	58
N. J.	15	53	–	68
Indiana	37	20	2	59
Illinois	34	16	11	61
Minn.	29	16	2	47
Iowa	33	9	14	56
Missouri	50	17	3	70
N. D.	3	0	–	3
S. D.	3	1	–	4
Kansas	25	8	–	33
Maryland	11	3	1	15
Virginia	7	8	4	19
W. Virginia	36	10	6	52
N. Carolina	30	9	–	39
Georgia	0	1	–	1
Florida	30	9	1	40
Tennessee	69	29	–	98
Alabama	19	3	–	22
Arkansas	23	7	–	30
Oklahoma	10	5	–	15
Texas	43	16	17	76
Mont.	8	1	1	10
N. M.	3	1	2	6
Utah	2	3	–	5
Washington	29	26	6	61
Oregon	11	15	2	28
Alaska	2	3	–	5

*States not reporting age classification are not listed.

EPIDEMIOLOGICAL REPORT

Infectious Hepatitis Traced to Raw Clams

On May 1, 1961, Dr. Roscoe B. Kandle, State Commissioner of Health of New Jersey, closed the New Jersey areas of Raritan Bay to the taking of shellfish. Later the same day similar restrictions were placed on the New York areas of the Bay and clams from these grounds were prohibited from the Fulton Fish Market by New York City. This action followed upon intensive and extensive investigations of hepatitis cases and clam distribution during the past several weeks in which a large number of Public Health Service personnel have joined with even larger numbers of State and local health authorities in studying the problem. Activities have centered largely in New Jersey but they have extended from Massachusetts to Florida and westward to Ohio.

The first indication of the possible existence of a common source of hepatitis infection arose in March 1961 with the recognition of an abnormal concentration of cases among adult males in New Jersey (MMWR, 1961, Vol. 10, No. 11). Similar adult concentrations were not found in other States felt to be representative of the nation. Later investigations revealed that in localized areas, specifically in Nassau and Westchester Counties of New York, equally sharp adult distributions were occurring but this pattern did not apply elsewhere in the State or in New York City.

Epidemiological investigations of individual reported cases in New Jersey revealed that among 370 cases questioned 201 or 54 percent admitted eating raw clams within 60 days of onset. In three selected areas of this State – Woodbridge Township, Monmouth County, and Newark – adult controls chosen on the basis of living in adjacent blocks to a reported case were interviewed. Only 44 of 453 adults, 10 percent, gave a similar history of eating clams. Careful surveys of cases of hepatitis in New York City using matched controls also revealed a positive correlation between the disease and eating clams although the differences were not as marked as those found in New Jersey. In Nassau County, New York, 22 of 47 cases interviewed gave a history of raw clam consumption but no figures on comparable controls are as yet available.

Attempts to trace the sources of contaminated clams proved to be a difficult undertaking. The long incubation period, 15 to 50 days, required the interviewers to attempt to secure accurate details from patients of clam consumption as far back as two to three months or longer. Multiple sources were often encountered and regular suppliers of certain restaurants often secured their clams from different areas. In many cases, therefore, it was not possible to specify the exact source of the clams eaten.

In a few cases, however, single sources of clam consumption could be clearly established. These pointed strongly to Raritan Bay. For the many cases in which several different sources may have been involved, it was possible to check to determine whether or not clams from Raritan Bay could have been one of the sources. These cases were then classified as "consistent with a Raritan Bay source."

According to data collected and tabulated through May 1, 1961, a total of 105 cases in New Jersey have been investigated. Of these 102 are classified as "consistent with a Raritan Bay source" and only 3 are "inconsistent." In other States including New York, Delaware, Rhode Island, and Massachusetts a total of 9 cases of hepatitis with a positive history of clam consumption have been investigated. Each of these has been found to be "consistent with a Raritan Bay source" and none has yet to be found inconsistent.

Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED APRIL 30, 1960 AND APRIL 29, 1961

(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

Area	Poliomyelitis 080										Meningitis, aseptic	Brucellosis (undulant fever)
	Total (Includes cases not specified by type)				Paralytic 080.0,080.1				Nonparalytic 080.2			
	17th Week		Cumulative, first 17 weeks		17th Week		Cumulative, first 17 weeks				340 pt.	044
	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1961
UNITED STATES	5	8	133	260	3	6	82	188	2	2	21	10
NEW ENGLAND	-	1	3	8	-	1	3	8	-	-	-	-
Maine	-	1	-	4	-	1	-	4	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	2	4	-	-	2	4	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut	-	-	1	-	-	-	1	-	-	-	-	-
MIDDLE ATLANTIC	1	1	12	38	-	1	9	27	1	-	3	1
New York	-	1	5	31	-	1	4	21	-	-	2	1
New Jersey	-	-	4	5	-	-	3	5	-	-	1	-
Pennsylvania	1	-	3	2	-	-	2	1	1	-	-	-
EAST NORTH CENTRAL	2	1	19	31	2	-	13	9	-	1	4	1
Ohio	-	-	8	15	-	-	4	3	-	-	-	-
Indiana	-	-	2	-	-	-	2	-	-	-	1	-
Illinois	2	-	5	4	2	-	5	3	-	-	2	1
Michigan	-	1	1	10	-	-	1	3	-	1	1	-
Wisconsin	-	-	3	2	-	-	1	-	-	-	-	-
WEST NORTH CENTRAL	-	-	4	14	-	-	3	8	-	-	-	5
Minnesota	-	-	1	8	-	-	1	6	-	-	-	-
Iowa	-	-	1	3	-	-	-	1	-	-	-	3
Missouri	-	-	-	2	-	-	-	1	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	1	-	-	-	-	-	-	-	-
Nebraska	-	-	2	-	-	-	2	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-	2
SOUTH ATLANTIC	-	1	13	44	-	1	9	36	-	-	1	-
Delaware	-	-	2	-	-	-	1	-	-	-	-	-
Maryland	-	-	-	1	-	-	-	-	-	-	-	-
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	-	-	2	3	-	-	1	3	-	-	-	-
North Carolina	-	1	3	14	-	1	2	14	-	-	-	-
South Carolina	-	-	1	2	-	-	1	2	-	-	-	-
Georgia	-	-	2	3	-	-	2	2	-	-	1	-
Florida	-	-	3	21	-	-	2	15	-	-	-	-
EAST SOUTH CENTRAL	-	-	14	8	-	-	3	7	-	-	1	1
Kentucky	-	-	13	6	-	-	2	5	-	-	-	-
Tennessee	-	-	-	-	-	-	-	-	-	-	-	1
Alabama	-	-	-	1	-	-	-	1	-	-	-	-
Mississippi	-	-	1	1	-	-	1	1	-	-	1	-
WEST SOUTH CENTRAL	1	3	17	24	1	2	8	18	-	1	1	1
Arkansas	-	-	1	-	-	-	-	-	-	-	-	1
Louisiana	1	1	5	6	1	1	3	5	-	-	-	-
Oklahoma	-	1	-	2	-	1	-	2	-	-	1	-
Texas	-	1	11	16	-	-	5	11	-	1	-	-
MOUNTAIN	1	-	17	14	-	-	10	8	1	-	1	-
Montana	-	-	1	4	-	-	1	3	-	-	-	-
Idaho	-	-	3	4	-	-	1	1	-	-	-	-
Wyoming	-	-	-	1	-	-	-	-	-	-	-	-
Colorado	-	-	3	1	-	-	3	1	-	-	1	-
New Mexico	-	-	1	1	-	-	-	-	-	-	-	-
Arizona	1	-	3	2	-	-	1	2	1	-	-	-
Utah	-	-	6	1	-	-	4	1	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC	-	1	34	79	-	1	24	67	-	-	10	1
Washington	-	-	3	6	-	-	-	6	-	-	2	-
Oregon	-	-	2	12	-	-	1	8	-	-	-	-
California	-	1	28	59	-	1	22	51	-	-	8	1
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	1	2	-	-	1	2	-	-	-	-
Puerto Rico	1	12	3	80	1	12	3	78	-	-	-	-

Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED APRIL 30, 1960 AND APRIL 29, 1961 - Continued

(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

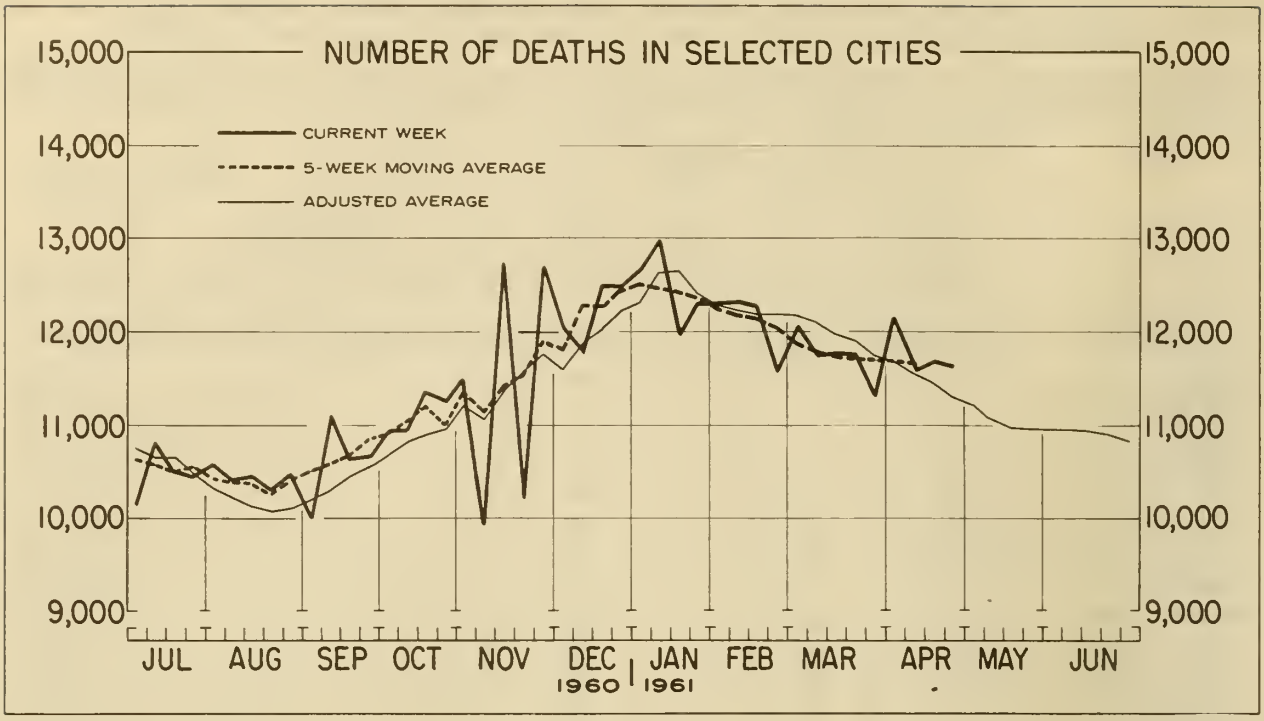
Area	Diphtheria 055				Encephalitis, infectious		Hepatitis, infectious, and serum 092,N998.5 pt.				Measles	
	17th Week		Cumulative, first 17 weeks		082		17th Week		Cumulative, first 17 weeks		085	
	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960
UNITED STATES	5	19	234	270	32	41	1,831	875	30,466	13,252	18,177	19,917
NEW ENGLAND	-	-	3	7	1	-	31	29	819	415	1,660	2,496
Maine	-	-	-	2	1	-	7	1	47	30	58	155
New Hampshire	-	-	-	-	-	-	5	4	55	15	90	74
Vermont	-	-	-	-	-	-	-	1	111	7	17	188
Massachusetts	-	-	3	4	-	-	4	13	270	214	749	1,214
Rhode Island	-	-	-	1	-	-	2	5	115	75	345	88
Connecticut	-	-	-	-	-	-	13	5	221	74	401	777
MIDDLE ATLANTIC	1	-	11	7	3	6	261	78	4,502	1,305	3,630	2,843
New York	1	-	4	1	2	4	87	37	1,799	652	1,178	2,188
New Jersey	-	-	-	1	-	1	68	9	1,103	111	1,106	517
Pennsylvania	-	-	7	5	1	1	106	32	1,600	542	1,346	138
EAST NORTH CENTRAL	-	-	7	22	5	2	448	195	5,985	2,624	5,121	5,916
Ohio	-	-	1	14	1	-	122	69	2,245	820	909	664
Indiana	-	-	1	3	-	-	59	24	1,007	371	261	635
Illinois	-	-	4	2	-	1	61	46	939	550	549	810
Michigan	-	-	1	3	4	1	199	54	1,654	754	1,524	1,574
Wisconsin	-	-	-	-	-	-	7	2	140	129	1,878	2,233
WEST NORTH CENTRAL	1	2	17	15	-	-	226	60	3,163	1,153	752	310
Minnesota	-	1	7	4	-	-	47	5	718	107	96	114
Iowa	-	-	1	2	-	-	56	10	877	211	255	45
Missouri	-	-	-	2	-	-	70	21	732	421	198	55
North Dakota	-	-	2	1	-	-	3	1	63	90	154	85
South Dakota	-	1	5	5	-	-	4	-	115	109	1	-
Nebraska	1	-	2	-	-	-	13	12	312	104	48	11
Kansas	-	-	-	1	-	-	33	11	346	111	NN	NN
SOUTH ATLANTIC	-	2	43	58	2	6	177	80	3,654	1,554	1,908	1,203
Delaware	-	-	-	-	-	-	2	8	101	78	57	14
Maryland	-	-	1	1	2	1	15	6	338	154	316	125
District of Columbia	-	-	2	-	-	-	1	-	39	11	5	59
Virginia	-	-	7	8	-	2	19	21	451	325	597	326
West Virginia	-	-	1	1	-	1	52	7	842	297	414	243
North Carolina	-	-	5	2	-	1	39	10	835	111	142	16
South Carolina	-	1	1	15	-	-	8	-	225	31	60	154
Georgia	-	1	8	10	-	-	1	2	374	129	45	1
Florida	-	-	18	21	-	1	40	26	449	418	272	265
EAST SOUTH CENTRAL	-	5	8	34	-	5	208	131	5,002	2,066	1,050	1,290
Kentucky	-	-	3	-	-	1	44	40	1,425	875	430	406
Tennessee	-	-	2	5	-	-	98	41	2,105	641	468	647
Alabama	-	1	1	17	-	3	22	41	807	403	66	75
Mississippi	-	4	2	12	-	1	44	9	665	147	86	162
WEST SOUTH CENTRAL	3	10	140	98	4	2	128	86	2,119	1,035	1,082	2,470
Arkansas	-	-	1	1	2	-	30	3	449	46	58	116
Louisiana	1	-	14	21	-	-	7	3	172	36	3	2
Oklahoma	-	-	2	5	-	1	15	14	158	159	20	144
Texas	2	10	123	71	2	1	76	66	1,340	794	1,001	2,208
MOUNTAIN	-	-	5	28	-	-	98	64	1,936	1,107	635	1,026
Montana	-	-	2	2	-	-	10	2	204	46	35	111
Idaho	-	-	-	11	-	-	13	8	111	153	46	104
Wyoming	-	-	-	5	-	-	7	-	84	8	22	1
Colorado	-	-	3	2	-	-	42	26	669	352	78	290
New Mexico	-	-	-	3	-	-	6	17	257	190	NN	-
Arizona	-	-	-	2	-	-	13	7	210	240	409	326
Utah	-	-	-	3	-	-	5	3	343	99	22	176
Nevada	-	-	-	-	-	-	2	1	58	19	23	18
PACIFIC	-	-	-	1	17	20	254	152	3,286	1,993	2,339	2,363
Washington	-	-	-	-	1	-	61	24	472	235	337	543
Oregon	-	-	-	-	1	-	28	25	566	382	230	571
California	-	-	-	-	15	20	156	98	2,101	1,234	1,759	1,138
Alaska	-	-	-	1	-	-	5	5	121	105	11	28
Hawaii	-	-	-	-	-	-	4	-	26	37	2	83
Puerto Rico	1	1	30	68	-	-	65	12	262	342	27	22

NN-Not Notifiable

Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED APRIL 30, 1960 AND APRIL 29, 1961 - Continued

(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

Area	Malaria 110-117	Meningoccocal infections 057		Psittacosis 096.2	Streptococcal sore throat, etc. 050,051	Typhoid fever 040				Typhus fever, endemic 101	Rabies in animals	
						17th Week		Cumulative, first 17 weeks				
	1961	1961	1960	1961	1961	1961	1960	1961	1960	1961	1961	1960
UNITED STATES	2	36	43	1	7,489	10	9	165	170	-	95	78
NEW ENGLAND	-	1	4	-	645	-	-	6	2	-	-	-
Maine	-	1	-	-	24	-	-	1	-	-	-	-
New Hampshire	-	-	-	-	15	-	-	-	-	-	-	-
Vermont	-	-	1	-	4	-	-	-	-	-	-	-
Massachusetts	-	-	3	-	185	-	-	1	2	-	-	-
Rhode Island	-	-	-	-	41	-	-	1	-	-	-	-
Connecticut	-	-	-	-	376	-	-	3	-	-	-	-
MIDDLE ATLANTIC	-	8	6	-	926	2	-	13	7	-	1	15
New York	-	3	3	-	560	-	-	5	5	-	1	14
New Jersey	-	2	1	-	188	-	-	1	-	-	-	-
Pennsylvania	-	3	2	-	178	2	-	7	2	-	-	1
EAST NORTH CENTRAL	-	10	9	-	1,000	1	2	22	23	-	12	8
Ohio	-	3	1	-	267	-	1	6	2	-	3	3
Indiana	-	-	3	-	173	1	1	3	8	-	3	1
Illinois	-	3	1	-	208	-	-	11	4	-	3	1
Michigan	-	3	4	-	164	-	-	1	5	-	3	3
Wisconsin	-	1	-	-	188	-	-	1	4	-	-	-
WEST NORTH CENTRAL	-	2	4	-	200	1	1	13	10	-	28	11
Minnesota	-	-	1	-	12	1	-	5	1	-	4	3
Iowa	-	-	-	-	69	-	-	1	-	-	12	2
Missouri	-	1	2	-	16	-	1	5	8	-	5	4
North Dakota	-	-	-	-	48	-	-	-	-	-	-	1
South Dakota	-	-	-	-	-	-	-	-	1	-	7	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-	1
Kansas	-	1	1	-	55	-	-	2	-	-	-	-
SOUTH ATLANTIC	-	6	7	-	532	-	1	28	22	-	13	16
Delaware	-	-	-	-	10	-	-	-	-	-	-	-
Maryland	-	2	-	-	94	-	-	-	-	-	-	-
District of Columbia	-	-	-	-	5	-	-	1	1	-	-	-
Virginia	-	-	1	-	138	-	-	1	3	-	7	8
West Virginia	-	1	1	-	191	-	-	4	1	-	3	4
North Carolina	-	1	-	-	30	-	-	6	7	-	-	-
South Carolina	-	1	1	-	7	-	-	2	6	-	-	2
Georgia	-	-	-	-	-	-	-	12	-	-	-	1
Florida	-	1	4	-	57	-	1	2	4	-	3	1
EAST SOUTH CENTRAL	-	4	2	-	1,297	1	2	21	32	-	15	8
Kentucky	-	2	-	-	285	-	-	4	11	-	3	5
Tennessee	-	-	-	-	943	1	-	15	17	-	11	3
Alabama	-	2	2	-	4	-	1	2	3	-	1	-
Mississippi	-	-	-	-	65	-	1	-	1	-	-	-
WEST SOUTH CENTRAL	-	1	2	-	865	3	2	27	47	-	20	17
Arkansas	-	-	-	-	8	-	-	3	15	-	5	7
Louisiana	-	1	-	-	4	1	-	4	12	-	1	-
Oklahoma	-	-	-	-	35	1	1	3	3	-	-	-
Texas	-	-	2	-	818	1	1	17	17	-	14	10
MOUNTAIN	-	1	2	-	1,047	1	1	15	12	-	2	-
Montana	-	-	2	-	38	-	-	1	5	-	-	-
Idaho	-	-	-	-	82	-	-	-	-	-	-	-
Wyoming	-	-	-	-	69	1	-	1	1	-	-	-
Colorado	-	1	-	-	288	-	-	5	-	-	-	-
New Mexico	-	-	-	-	216	-	-	3	4	-	1	-
Arizona	-	-	-	-	206	-	1	2	2	-	1	-
Utah	-	-	-	-	129	-	-	2	-	-	-	-
Nevada	-	-	-	-	19	-	-	1	-	-	-	-
PACIFIC	2	3	7	1	977	1	-	20	15	-	4	3
Washington	-	-	1	-	509	1	-	2	-	-	-	-
Oregon	-	2	1	-	73	-	-	-	-	-	-	-
California	2	1	4	1	350	-	-	18	15	-	4	3
Alaska	-	-	-	-	42	-	-	-	-	-	-	-
Hawaii	-	-	1	-	3	-	-	-	-	-	-	-
Puerto Rico	-	1	-	-	2	1	1	7	15	-	-	-



The chart shows the number of deaths reported for 117 major cities of the United States by week for the current year, a 5-week moving average of these figures plotted at the central week, and an adjusted average for comparison. For each region the adjusted average was computed as follows: From the total deaths reported each week for the years 1956-1960, 3 central figures were selected by eliminating the highest and lowest figure reported for that week. A 5-week moving average of the arithmetic mean of the 3 central figures was then computed with adjustment to allow for population growth in each region. The average value of the regional increases was 2 percent which was incorporated in the adjusted average shown in the chart.

Table 4 shows the number of death certificates received during the week indicated for deaths that occurred in selected cities. Figures compiled in this way, by week of receipt, usually approximate closely the number of deaths occurring during the week. However, differences are to be expected because of variations in the interval between death and receipt of the certificate and because of incomplete reporting due to holidays or vacations. If a report is not received from a city in time to be included in the total for the current week, an estimate is used.

The number of deaths in cities of the same size may also differ because of variations in the age, race, and sex composition of the populations and because some cities are hospital centers serving the surrounding areas. Changes from year to year in the number of deaths may be due in part to population increases or decreases.

Table 3. DEATHS IN SELECTED CITIES BY GEOGRAPHIC DIVISIONS

(By place of occurrence and week of filing certificate. Excludes fetal deaths. Data exclude figures shown in parentheses in table 4)

Area	17th week ended April 29, 1961	16th week ended April 22, 1961	Adjusted average, 17th week 1956-60	Percent change, adjusted average to current week	Cumulative, first 17 weeks		
					1961	1960	Percent change
TOTAL, 117 REPORTING CITIES	11,631	11,638	11,294	+3.0	204,173	214,124	-4.6
New England (14 cities)	726	689	680	+6.8	12,544	13,548	-7.4
Middle Atlantic (20 cities)	3,350	3,331	3,161	+6.0	58,655	58,621	+0.1
East North Central (21 cities)	2,503	2,497	2,403	+4.2	43,036	46,032	-6.5
West North Central (9 cities)	833	816	810	+2.8	13,788	14,859	-7.2
South Atlantic (11 cities)	1,025	1,007	954	+7.4	17,645	18,858	-6.4
East South Central (8 cities)	508*	487	507	+0.2	9,347	9,841	-5.0
West South Central (13 cities)	993*	969	972	+2.2	17,565	18,932	-7.2
Mountain (8 cities)	326*	380	361	-9.7	6,488	6,621	-2.0
Pacific (13 cities)	1,367	1,462	1,446	-5.5	25,105	26,812	-6.4

*Includes estimate for missing reports.

Table 4. DEATHS IN SELECTED CITIES

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	17th week ended April 29, 1961	16th week ended April 22, 1961	Cumulative, first 17 weeks	
			1961	1960
NEW ENGLAND:				
Boston, Mass.	246	251	4,312	4,743
Bridgeport, Conn.	41	41	682	762
Cambridge, Mass.	30	36	531	587
Fall River, Mass.	29	27	470	549
Hartford, Conn.	47	48	823	856
Lowell, Mass.	19	22	415	438
Lynn, Mass.	24	23	401	472
New Bedford, Mass.	25	25	471	469
New Haven, Conn.	43	44	806	823
Providence, R.I.	68	52	1,087	1,194
Somerville, Mass.	10	11	225	277
Springfield, Mass.	50	48	838	874
Waterbury, Conn.	28	21	487	509
Worcester, Mass.	66	40	996	995
MIDDLE ATLANTIC:				
Albany, N.Y.	54	43	834	798
Allentown, Pa.	36	42	608	644
Buffalo, N.Y.	167	139	2,565	2,654
Camden, N.J.	40	52	757	791
Elizabeth, N.J.	21	30	505	545
Erie, Pa.	37	41	693	700
Jersey City, N.J.	90	99	1,252	1,293
Newark, N.J.	104	105	1,838	1,821
New York City, N.Y.	1,684	1,712	30,242	29,760
Paterson, N.J.	33	37	665	724
Philadelphia, Pa.	510	509	9,166	8,995
Pittsburgh, Pa.	217	186	3,345	3,542
Reading, Pa.	25	21	374	435
Rochester, N.Y.	103	91	1,766	1,838
Schenectady, N.Y.	22	23	432	429
Scranton, Pa.	28	39	643	694
Syracuse, N.Y.	69	69	1,075	1,126
Trenton, N.J.	45	36	791	760
Utica, N.Y.	21	24	512	518
Yonkers, N.Y.	44	33	592	554
EAST NORTH CENTRAL:				
Akron, Ohio	57	61	980	1,022
Canton, Ohio	34	30	545	672
Chicago, Ill.	774	792	13,065	14,166
Cincinnati, Ohio	153	157	2,750	2,968
Cleveland, Ohio	240	186	3,643	3,925
Columbus, Ohio	141	122	2,008	2,229
Dayton, Ohio	62	82	1,419	1,290
Detroit, Mich.	315	347	5,807	6,349
Evansville, Ind.	33	40	635	700
Flint, Mich.	54	33	746	709
Fort Wayne, Ind.	33	47	697	668
Gary, Ind.	41	19	536	555
Grand Rapids, Mich.	37	44	786	749
Indianapolis, Ind.	135	143	2,567	2,682
Madison, Wis.	31	30	535	574
Milwaukee, Wis.	132	118	2,128	2,282
Peoria, Ill.	28	32	516	538
Rockford, Ill.	27	25	488	514
South Bend, Ind.	23	30	486	528
Toledo, Ohio	102	88	1,713	1,870
Youngstown, Ohio	51	71	986	1,042
WEST NORTH CENTRAL:				
Des Moines, Iowa	60	61	916	1,003
Duluth, Minn.	21	21	448	452
Kansas City, Kans.	39	37	680	635
Kansas City, Mo.	182	79	2,223	2,391
Lincoln, Nebr.	(26)	(31)	(494)	(448)
Minneapolis, Minn.	131	140	2,161	2,242
Omaha, Nebr.	74	69	1,230	1,384
WEST NORTH CENTRAL—Con.:				
St. Louis, Mo.	225	292	4,195	4,652
St. Paul, Minn.	63	63	1,159	1,281
Wichita, Kans.	38	54	776	819
SOUTH ATLANTIC:				
Atlanta, Ga.	116	105	2,036	2,156
Baltimore, Md.	267	293	4,463	4,821
Charlotte, N.C.	38	19	624	794
Jacksonville, Fla.	48	63	1,033	1,177
Miami, Fla.	68	75	1,309	1,368
Norfolk, Va.	54	42	872	801
Richmond, Va.	89	62	1,402	1,515
Savannah, Ga.	33	26	596	689
St. Petersburg, Fla.	(63)	(72)	(1,334)	(1,420)
Tampa, Fla.	63	77	1,212	1,243
Washington, D.C.	217	208	3,417	3,571
Wilmington, Del.	32	37	681	723
EAST SOUTH CENTRAL:				
Birmingham, Ala.	102	78	1,570	1,614
Chattanooga, Tenn.	43	51	878	886
Knoxville, Tenn.	26	25	489	542
Louisville, Ky.	111*	82	1,969	2,081
Memphis, Tenn.	90	141	2,089	2,162
Mobile, Ala.	48	33	729	789
Montgomery, Ala.	33	17	564	638
Nashville, Tenn.	55	60	1,059	1,129
WEST SOUTH CENTRAL:				
Austin, Tex.	47	35	607	664
Baton Rouge, La.	34	32	515	556
Corpus Christi, Tex.	19	16	417	482
Dallas, Tex.	141	107	2,187	2,304
El Paso, Tex.	21	39	637	705
Fort Worth, Tex.	73	72	1,184	1,232
Houston, Tex.	195	109	2,988	3,137
Little Rock, Ark.	53	77	980	1,115
New Orleans, La.	176	164	2,979	3,380
Oklahoma City, Okla.	70	84	1,357	1,394
San Antonio, Tex.	83	127	1,823	1,933
Shreveport, La.	53*	57	932	958
Tulsa, Okla.	28	50	959	1,072
MOUNTAIN:				
Albuquerque, N. Mex.	23	45	548	553
Colorado Springs, Colo.	17	12	286	320
Denver, Colo.	99	104	2,033	2,211
Ogden, Utah	14*	13	268	309
Phoenix, Ariz.	82	104	1,501	1,439
Pueblo, Colo.	19	19	288	265
Salt Lake City, Utah	39	39	846	872
Tucson, Ariz.	33	44	718	652
PACIFIC:				
Berkeley, Calif.	18	10	287	312
Fresno, Calif.	(48)	(47)	(771)	(864)
Glendale, Calif.	(15)	(31)	(555)	(728)
Honolulu, Hawaii	35	43	698	752
Long Beach, Calif.	63	65	1,039	996
Los Angeles, Calif.	515	508	9,022	9,760
Oakland, Calif.	95	90	1,687	1,769
Pasadena, Calif.	25	31	572	646
Portland, Oreg.	112	133	1,815	1,982
Sacramento, Calif.	62	55	1,085	1,077
San Diego, Calif.	64	108	1,553	1,710
San Francisco, Calif.	186	193	3,566	3,630
San Jose, Calif.	(37)	(37)	(617)	(550)
Seattle, Wash.	102	129	2,288	2,541
Spokane, Wash.	53	45	787	844
Tacoma, Wash.	37	52	706	793
San Juan, P. R.	(45)	(25)	(592)	(613)

*Estimate - based on average percentage of divisional total.

() Figures shown in parenthesis are from cities which have been reporting less than five years and hence are not included in Table 3.

UNIVERSITY OF FLORIDA
3 1262 08864 0122

UNIV. OF FL LIB.
DOCUMENTS DEPT.
U.S DEPOSITORY

SOURCE AND NATURE OF MORBIDITY DATA

These provisional data are based on reports to the Public Health Service from the health departments of each State and Puerto Rico. They give the total number of cases of certain communicable diseases reported during the week usually ended the preceding Saturday. Total figures for the United States and the Pacific Division include data for the States of Alaska and Hawaii. Cases of anthrax, botulism, and rabies in man are not shown in table 2, but a footnote to table 1 shows the States reporting these diseases. When diseases of rare occurrence are reported by a State (cholera, dengue, plague, louse-borne relapsing fever, smallpox, louse-borne epidemic typhus, and yellow fever) this is noted below table 1.

U. S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
Communicable Disease Center
Atlanta 22, Georgia
Official Business

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF H.E.W.